JAN 1 4 2005 88

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paper Coth, Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Complete if Known				
Application Number	10/822,445			
Filing Date	April 12, 2004			
First Named Inventor	David S. Breed			
Art Unit	3662			
Examiner Name				
Attorney Docket Number	ITI-002			

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
iruuais	NO.	Number-Kind Code ^{2 (f known)}	1,,,,,,	, , , , , , , , , , , , , , , , , , , ,	Figures Appear
m		^{US-} 5,617,317	4/1997	Ignagni	·
1		^{US-} 5,760,737	6/1998	Brenner	
		^{US-} 5,890,083	3/1999	Franke	
		US- 5,926,117	7/1999	Gunji	
1		^{US-} 5,983,161	11/1999	Lemelson	
- -		US- 6,014,608	1/2000	Seo	
		US- 6,311,129	10/2001	Lin	
	T-	^{US-} 6,370,475	4/2002	Breed	
		^{US-} 6,405,132	6/2002	Breed	
		US- 6,453,238	9/2002	Brodie	
		US- 6,459,990	10/2002	McCall	
	<i>"</i>	^{US-} 6,516,273	2/2003	Pierowicz	
$\neg \vdash \neg$		^{US-} 6,560,535	5/2003	Hohman	
-1-	1	US- 6,768,944	7/2004	Breed	
1.	T	US- 2003/0025597	2/2003	Schofield	
工		US- 2003/0112132	6/2003	Trajkovic	
mi	\vdash	US- 5,841,367	11/1998	Giovanni	
	1	US-			
		US-			

		FORE	IGN PATENT DOCL	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ² "Number ⁴ "Kind Code ⁵ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	15
ns		WO 01/50088	7/2001	Levy		
						L
-						
	╁					

Examiner Signature	MI C	il	Date Con	e nsidered 9/	195	65

*EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the Individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 2

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 4

Complete il Known				
Application Number	10/822,445			
Filing Date	April 12, 2004			
First Named Inventor	David S. Breed			
Art Unit	3662			
Examiner Name				
Attorney Docket Number	ITLAN2			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (F known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
m.		^{US-} 3,702,477	11/1972	Brown	
		^{US-} 5,177,685	1/1993	Davis	
		^{US-} 5,332,180	7/1994	Peterson	
7		^{US-} 5,381,338	1/1995	Wysocki	
77		^{US-} 5,504,482	4/1996	Schreder	
thy		^{US-} 5,570,087	10/1996	Lemelson	
		US-		33333	
		US-	,		
		US-			
		U\$-			
		US-	_		
		US-		·	
		US-			
		US-		-	
		US-			
		US-			·
		US-			
		US-			· ·
		US-			

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁶ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
						L
		·				L
	<u> </u>					
		•		1	1	

Examiner Signature M.C.	Date Considered	20/2/19

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in the conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Wind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO	Complete if Known		
Substitute for form 144 are 10	Application Number	10/822,445	
INFORMATION DISCLOSURE	Filing Date	April 12, 2004	
STATEMENT BY APPLICANT	First Named Inventor	David S. Breed	
	Art Unit	3662	
(Use as many sheets as necessary)	Examiner Name		
Sheet 3 of 1.4	Attorney Docket Number	ITI-002	

			NON PATENT LITERATURE DOCUMENTS	
		Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
m 1.		1	SRI International Centimeter- Level GPS for Highway Systems, J.W. SINKO et al. Jul., 1998.	
		2	SRI International, An Evolutionary Automated Highway System Concept Based on GPS, J.W. SINKO, Sep., 1996 (p. 5, second column to p. 7).	
		3	SRI International Using GPS for Automated Vehicle Convoying, T.M. NGUYEN, Sep. 1998.	
	4		V. MORALLES et al., Preview Based Control of a Tractor Trailer Using DGPS for Preventing Road Departure Accidents, 1998 IEEE International Confrerence on Intelligent Vehicles,	
			pp.797-805.	
	5		S. BAJIKAR et al., Evaluation of In-Vehicle GPS-Based Lane Position Sensing for Preventing Road Departure, 1998 IEEE International Conference on Intelligent Vehicle,	
			pp.307-402.	
		6	B. SCHILLER et al., Collision Avoidance for Highway Vehicles Using the Virtual Bumper Controller, 1998 IEEE International Conference on Intelligent Vehicles, pp. 149-155.	
		7	M. O'SHEA and V. SHUMAN, Looking Ahead: Map Database in Predictive Positioning and Safety Systems, no Date.	
n	x V	8	J. PIEROWICZ, Use of Map Data Information in an On-Board Intersection Violation Detection System, 1998 IEEE.	

Examiner	0.4 5 . 7	Date	9/20/08
Signature	m July	Considered	1/20/00

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Un	der the Paperwork Red	luction A	ct of 1995, no persons ar	re required to respond to a collection	of information unless it contains a valid OMB control number	
Substitute for form 1449/PTO			Complete if Known			
				Application Number	10/822,445	1
INF	ORMATION	DIS	CLOSURE	Filing Date	April 12, 2004	
STATEMENT BY APPLICANT				First Named Inventor	David S. Breed	
	(Use as many she	note no r		Art Unit	3662	
	(Use as many sne	ers as t	lecessary)	Examiner Name		_
Sheet	4	of	4	Attorney Docket Number	ITI-002	7

		NON PATENT LITERATURE DOCUMENTS		
Examiner Cite Initials* No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
w	9	GORAN M. DJUKNIC and ROBERT E. RICHTON, Geolocation and Assisted GPS, Feb, 2001.		
	10	H. WEINBERG, MEMS Sensors Are Driving the Automotive Industry, Sensors, Feb. 2002		
	11%	R. GRACE, The Growing Presence of MEMS and MST in Automotive Applications, Sensors, Sep. 1999.		
W	12	D. SINGH et al., Autonomous Vehicle Using WADGPS, Proceedings of Intelligent Vehicles '95 Symposium, Sep. 25-26, 1995, pp. 370-375.		
-				
	<u> </u>	<u>.</u>	ll .	

Examiner		Date	
Signature	2)	Considered	9120105

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.